INTERSTATE CONTERCE COMMISSION

- 0 -

REPORT OF THE DIRECTOR OF THE BUREAU OF SAFETY IN RE IN-VLSTIGATION OF AN ACCIDENT WHICH OCCURRED ON THE NEW YORK, SUSQUEHANMA & WESTERN RAILFOAD NEAR GREEN POND JUNCTION, N. J., ON JUNE 25, 1925.

September 26, 1925.

To the Cormission.

On June 23, 1925, there was a collision between two runaway irright cars, coupled, and a freight train on the No. York, Susquehanna & Western Railroad near Green Pond Junction, N.J., resulting in the death of one employee and the injury of five employees.

Location and Method of Operation

Green Pond Junction is the junction point between the New York Susquehanna & Western Railroad and the Wharton & Northern Railroad the New York, Susquehanna & Western main track extends from northwest to southeast in this immediate vicinity, and is a single-track line over which trains are operated by time-table, train orders, and a manual blocksignal system. The wharton & Northern Railroad maintains a vara at this point, about 1,500 feet in length, the tracks, catending westward from the junction switch, parallel each other, track centers being 12.5 feet apert, and are-designate ed from north to south as follows: River track, N. & N. main trick, Middle track, Back track. These tracks merge into the W. & N. main track, which serves as a lead track, nt the east end of the word, about 200 feet west of the juncturn switch. There is a derail, on the south rail of the lead track at a point 175 feet west of the junction switch, which works in conjunction with this switch, being in derailing position when the junction switch is lined for through movements on the New York, Susquehanna & Western main track. Approximately 50 cars a day are interchanged between these rocas at this point. No special bulletins or instructions were in effect relative to the placing of cars on the tracks of this yard, known as Green Pond Junetion ward. The runaway ears started from the back track of Green Pond Junetica yard; proceeding castward the yard tracks and lead track are practically tangent to the junction switch, while from this point the main track of the New York, Susquehanna & Western Railroad is practically tangent for a distance of 450 feet, followed by numerous short curves and tangents to the point of

collision, about 2.5 miles distant, which occurred on a 50 curve to the right about 950 feet in length, at a point about 350 feet from its western and. The grade for castbound to ins on the yard and lend tracks to the junction switch varies from 0.10 to 1.38 per cent descending, being 1 per cent on the lend track, while on the main track of the New York, Susquehana & Western Railroad the grade is 1.40 per cent assending from the junction switch to the point of recident and for about 1 mile payend. The trains involved were in charge of employees of the New York, Susquehana & Western Railroad.

It had been raining, but the rain and stopped at the time of the accident, which occurred at about 3.25 a.m.

Description

Enathound frought train extra 56/62, on route from Borver Lake to Undercliff, N.J., hauled by ongines 56 and 62, in charge of Conductor Gouger and Enginemen Potter and Henry, respectively, arrived at Green Pond Junction nt about 1.25 a.m. There was considerable switching to be porfurmed at this point and while this work was in progress the derail was left off the lead track, in which position the junction switch was lined for movements from the yard to the New York, Susquehanna & Western main track. In the course of this york M.E.C. box one 35003 was placed on the back track, after which P. & R. box car 10938 was coupled to its distern and, both of those cars had wooden superstructures and steel-underframes, were of 80,000 pound coproity, and were loaded with coment. About 20 minutes after those cars were coupled, while work was being performed on the pack trick of the western and of the yord, the tio bex ears started to move eastward, at about 3:15 a.m., ron down the book track, out on the lead track, through the junction switch, and down the New York, Susquehanna & Westorn main track, and on reaching a point about 2.5 miles distant collided with extra 53/116.

Westbound freight train extra 53/116, on route from Uniorchiff to Beaver Lake, N.J., consisted of 23 cars and a caboose, housed by engines 53 and 116, and was in charge of Conductor Kautz and Enginemen Titsworth and Kitheart, respectively. This train left Eutler, 4.9 miles from Green Pend Junction, t 2:47 i.m., was considerably delayed on account of the heavy grade, full tennage, and poor condition of the engines, and had reached a point only midway between Butler and Green Pend Junction, traveling at a speca of about 15 miles an hour, when it was struck by the runaway cars.

The head end of engine 53 climbed the east end of P. & R. oox car 10938, telescoping this car for a considerable distance, engine 53 was badly dimaged and its boiler was forced back against the tender, which in turn badly damaged the head end of engine 116. None of the other equipment in this train was derailed. The employee killed was the fireman of engine 53.

Surmary of cvidence

Conductor Gouger, of extra 56/62, stated that switching vas being done with the rir coupled and in use; the derail was also off the long-track roul as it was necessary to leave open the switch leading to the New York. Dusquehanna & Western main track in order to utilize that track in switching oper tions. M.F.C. box orr 35003 and placed on the back trick auring the progress of this switching, he cut this our off and opened the angle cock, applying the air brakes, but he did not see Brokeman Petterson set the hand broke, although the brakeman was riding this car. Inflorwards, P. & R. box onr 10938 was coupled to the eastern end of our 35003, and Conductor Gougar stated that he ustahed the slock run out at the time, and, as is customary, placed a block of vood, about 1" or 1克" x 3", under a theel at the east end of the e.r. We interchange inspection "as made of car 10938 at the time it wis placed on the back track, as it was not customery to make this inspection until they had made up the train. He did not know whether the air was applied on car 10938, and said that the hand brake was not set, as one hand brake should hold two cars. About 20 Minutes ofterwirds, valle switching near the vest end of the yard, Engineman Potter told Conductor Gouger that he thought he orr going out of the switch at the east and of the word, and on looking in that direction the conductor saw the the sex cars moving postword, he immediately cut off the engine and instructed Engineman Potter to endervor to overtake the runaway cars. Conductor Gouger jot of: at the tolophore booth and informed the operator at Butler, 4.9 miles agetone, of the situation. Conductor Gouger aftervards wint to the seems of the accident but on his arrival he did not feel the vheels on the runeway cars to see if they were hot, in order to acturmine whether the brokes had been applied. Subsequently, he found the wooden block that he placed under the wheel of P. & R. or 10938, outside the roll on the ties; there was no indication that it had been run over, and he was of the opinion that the plack had been pushed off the rail owing to the slippery condition of the rsil and wheel. Conductor Gouger further stated that Brakeman Petterson had worked with him at various times for the past 15 years and no had always found him thoroughly relinble, therefore, he depended solely upon him properly to apply the hand brake on M E.C. car 35003.

After the accident it was found that the prake rod on car 35003 had the sheave missing, however, Conductor Gouger stated that if this existed prior to the accident it probably would not have been detected by inspection. He further stated that it was his practice in switching cars at Green Pond Junction yard to apply the hand brakes on the roor, and to shove each car in, couple it, and pull out the slack to make sure they were coupled and that the cars would stand. He also said he was thoroughly familiar with the instructions governing the leaving of cars standing with hand brakes applied, and that air should be bled from the car and brakes applied on the head and roor ends when cars are set out, but said that in switching cars the air was not bled when the hand brake was set as there would be too much time lost in recharging when again coupling to them, which latter statement was verified by Brakeman Petterson.

Middle Brakeman Petterson, of extra 56/62 also stated that the switching was done with the air coupled and in working order, as is customary. When car 35003 was placed on the back track he applied the hand brake, and after the engineman applied the air he tightened the hand brake, but did not use a broke club as the air was in use on this car and consequently it would be very difficult to release the hand orake afterwards. He then stepped over to the next car, without bleeding the air from car 35003, as he know they were going back after this car, and he said he also placed a block under one of the wheels. He further stated that the hand brake appeared to be an efficient brake and in his judgment should have held another cor. Brakeman Potterson was the one who cut off car 10938, and he said he aid not apply the hand brake, nor did he notice whether the hand broke on car 35003 was still applied. He was unaware of enything wrong until after the cars had started to run away.

Engineman Potter, of extra 56/62, stated that while switching at the west end of the yard he noticed the two box cars moving out of the east end of the yard, and immediately called Conductor Gouger, who instructed him to endeavor to overtake them. The engine was cut off and he proceeded as far as Kinnew's Siding, at which point he had a meet with the train that collided with the runaway cars, and not seeing anything of these cars he returned to Green Pond Junction, notified the conductor, and they immediately went back to the point of collision. Fireman Pugh corroborated the statements of Engineman Potter.

Engineman Titsworth, of extra 52/118, soid he was un-

nuare of anything wrong until he saw the runaway cars rounding the curve, apparently about 100 feet distint. Brakeman Henderschott was riging on the firemen's side of the cab and shouted a varning of danger about the time the engineering saw the runaway cars. The sir brakes were not applied prior to the collision, at which time the speed was about 15 miles on heur.

After the handent on inspection of the broke rigging on ear 3500s showed that the brake chain was anchored to the and sill and extended pack to the hand-brake red. The shorte which this type/grake rigging should have in the ord of the hand-brake rod was missing and was replaced by a polt, between 6 and 8 inches in length, around which the brake chain was passed to the brake shaft. The brake-shaft wheel was a 16 inch wheel, the ratchet wheel had 27 teath on the underside, the brake paul was engaged in the teath of the ratchet theel and there was one wrap of chain around the brake shaft. With the exception of the missing shows the brake rigging appeared to have been in good concition prior to the recident.

Conclusions

This accident was caused primarily by leaving M E.C. box car 35003 and P. a R. box c r 10938, coupled, standing on a descending grade without being properly secured, resulting in the cars running out of the vard and colliding with a freight train moving in the opposite direction, for which Conductor Soughr and Hid de brakeman Petturson are responsible.

The air origos were applied at the time car 35003 was placed on the back track, and Brakeman Petterson said he set the hand brake on this car. Car 10938 was afterwards coupled to it an Conductor Couper said no placed a placed a placed a placed a placed and activated under a wheel of our 10938, the hand brake, however, was not applied on this car. Wheat 20 minutes later, while switching at the opposite and of the yare, the cars started to move, and apparently the weeden block was pushed off the rail, permitting the cars to run away. It seems clear either that the hand brake was not set sufficiently tight to held two cars on the grade, or else that the hand brake on car 35005 was knocked loose then car 10938 was coupled to it.

According to the records, on 35003 page d Lake Junction, N.J., on the Wharton & Northern Railron and was last inspected by inspectors of that railroad but no defect noted, it was delivered to the New York, Susauchanna α western Railroad at Green Pend Junction at 8 pm., June 22.

The investigation developed that it has not been unusual for one to start moving of their can accord in this yard, and rarks on the tills in the vicinity of the deril indicated that each had fun off the arrall on previous econsions. Under the projection when the junction statch, and when a crew is switching at this point the deril is off the roll of the load track, thereby affording indicated protection under circumstrates similar to their currentlanding this accident. Surious consideration should be given to the possibility of providing additional safeguards at this point.

All the employees involved wer, experienced from at the time of the socialent none of them had been on duty in violation of any of the provisions of the hours of service law.

Respectfully submitted,

W P. BORLAND.

Director.